

CLAIMS

I claim:

1. A method for accessing location-based information by using multiple identities of access
5 points comprising:
 - Receiving first information that includes said multiple identities of access points,
 - Identifying the access point that is known by an access point database,
 - Recognize one or more proximity relationships between the known access points from
the first information,
 - 10 Identifying the proximity relationship that is known by said access point database,
 - Selecting a group access points based on the known proximity relationships, and
 - Determining a representative location from the group of access points.
2. The method of claim 1, further comprise updating said access point database to include
unknown access point and/or unknown proximity relationship in said first information.
- 15 3. The method of claim 1, wherein said proximity relationship is one or more selected from the
following group:
 - a operation range overlapping condition,
 - a traveling time,
 - a distance,
 - 20 a distance, and
 - a visiting order.
4. The method of claim 1, further comprise returning said representative location.
5. The method of claim 1, further comprising search geo-coded database for information that is
in proximity to said location and returning the search result.
- 25 6. The method of claim 1, further comprising:
 - receiving the second information,
 - associating the second information with the representative location, and
 - storing the association in a database

7. The method of claim 1, wherein said first information further includes the detecting timestamps of said multiple identities.
8. The method of claim 7, further comprise calculating the traveling time between detecting two said identities and updating the average traveling time.
- 5 9. The method of claim 1, further comprising:
 - receiving the second information,
 - associating the second information with the representative location, and
 - storing the association in a database